

**RAW SEQUENCE LISTING**

DATE: 12/10/2002

PATENT APPLICATION: US/09/486,094B

TIME: 08:10:38

Input Set : A:\#396215 v1 - A33002-PCT-USA Sequence Listing.txt

Output Set: N:\CRF4\12102002\I486094B.raw

4 <110> APPLICANT: Freyssinet, Georges
 5 Derose, Richard
 6 Hoffman, Jules
 8 <120> TITLE OF INVENTION: GENE CODING FOR ANDOCTONINE, VECTOR
 9 CONTAINING SAME AND TRANSFORMED DISEASE RESISTANT PLANTS
 10 OBTAINED
 12 <130> FILE REFERENCE: A33002-PCT-USA (0726667.0124)
 14 <140> CURRENT APPLICATION NUMBER: 09/486,094B
 C--> 15 <141> **CURRENT FILING DATE: 2002-11-18**
 17 <150> PRIOR APPLICATION NUMBER: PCT/FR98/01814
 18 <151> PRIOR FILING DATE: 1998-08-18
 20 <150> PRIOR APPLICATION NUMBER: FR97/10632
 21 <151> PRIOR FILING DATE: 1997-08-20
 23 <160> NUMBER OF SEQ ID NOS: 15
 25 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 27 <210> SEQ ID NO: 1
 28 <211> LENGTH: 110
 29 <212> TYPE: DNA
 30 <213> ORGANISM: Androctonus australis
 32 <400> SEQUENCE: 1
 33 aggtccgtgt gcaggcagat caagatctgc aggaggaggg gtggttgcta ctacaagtgc 60
 34 actaacaggc catactgagc tcggcgaggc gaacgtgtcg acggatccgg 110
 36 <210> SEQ ID NO: 2
 37 <211> LENGTH: 25
 38 <212> TYPE: PRT
 39 <213> ORGANISM: Androctonus australis
 41 <400> SEQUENCE: 2
 42 Arg Ser Val Cys Arg Gln Ile Lys Ile Cys Arg Arg Arg Gly Gly Cys
 43 1 5 10 15
 44 Tyr Tyr Lys Cys Thr Asn Arg Pro Tyr
 45 20 25
 48 <210> SEQ ID NO: 3
 49 <211> LENGTH: 106
 50 <212> TYPE: DNA
 51 <213> ORGANISM: Androctonus australis
 53 <400> SEQUENCE: 3
 54 gcgtcgacgc catggggtttc gtgcttttct ctcagcttcc atctttcctt ctttgttcta 60
 55 ctcttcttct tttccttggtg atctctcact cttgccgtgc cggcga 106
 57 <210> SEQ ID NO: 4
 58 <211> LENGTH: 30
 59 <212> TYPE: PRT
 60 <213> ORGANISM: Androctonus australis
 62 <400> SEQUENCE: 4

ENTERED

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63 Met Gly Phe Val Leu Phe Ser Gln Leu Pro Ser Phe Leu Leu Val Ser
64 1 5 10 15
65 Thr Leu Leu Leu Phe Leu Val Ile Ser His Ser Cys Arg Ala
66 20 25 30
69 <210> SEQ ID NO: 5
70 <211> LENGTH: 211
71 <212> TYPE: DNA
72 <213> ORGANISM: Androctonus australis
74 <400> SEQUENCE: 5
75 gcgtcgacgc catgggtttc gtgcttttct ctcagcttcc atctttcctt cttgtgtcta 60
76 ctctttcttct tttccttggt atctctcact cttgccgtgc caggccgtg tgcaggcaga 120
77 tcaagatctg caggaggagg ggtggttgct actacaagt cactaacagg ccatactgag 180
78 ctcggcgagg cgaacgtgtc gacggatccg g 211
80 <210> SEQ ID NO: 6
81 <211> LENGTH: 55
82 <212> TYPE: PRT
83 <213> ORGANISM: Androctonus australis
85 <400> SEQUENCE: 6
86 Met Gly Phe Val Leu Phe Ser Gln Leu Pro Ser Phe Leu Leu Val Ser
87 1 5 10 15
88 Thr Leu Leu Leu Phe Leu Val Ile Ser His Ser Cys Arg Ala Arg Ser
89 20 25 30
90 Val Cys Arg Gln Ile Lys Ile Cys Arg Arg Arg Gly Gly Cys Tyr Tyr
91 35 40 45
92 Lys Cys Thr Asn Arg Pro Tyr
93 50 55
96 <210> SEQ ID NO: 7
97 <211> LENGTH: 75
98 <212> TYPE: DNA
99 <213> ORGANISM: Artificial Sequence
101 <220> FEATURE:
102 <223> OTHER INFORMATION: Synthetic oligonucleotide
104 <400> SEQUENCE: 7
105 gcgtcgacgc gatgggtttc gtgcttttct ctcagcttcc atctttcctt cttgtgtcta 60
106 ctctttcttct tttcc 75
108 <210> SEQ ID NO: 8
109 <211> LENGTH: 72
110 <212> TYPE: DNA
111 <213> ORGANISM: Artificial Sequence
113 <220> FEATURE:
114 <223> OTHER INFORMATION: Synthetic oligonucleotide
116 <400> SEQUENCE: 8
117 tcgccggcac ggcaagagta agagatcaca aggaaaagaa gaagagtaga cacaagaagg 60
118 aaagatggaa gc 72
120 <210> SEQ ID NO: 9
121 <211> LENGTH: 44
122 <212> TYPE: DNA
123 <213> ORGANISM: Artificial Sequence
125 <220> FEATURE:

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126 <223> OTHER INFORMATION: Synthetic oligonucleotide
128 <400> SEQUENCE: 9
129 aggtccgtgt gcaggcagat caagatctgc aggaggaggg gtgg 44
131 <210> SEQ ID NO: 10
132 <211> LENGTH: 97
133 <212> TYPE: DNA
134 <213> ORGANISM: Artificial Sequence
136 <220> FEATURE:
137 <223> OTHER INFORMATION: Synthetic oligonucleotide
139 <400> SEQUENCE: 10
140 ccggtaccgt cgacacgttc gcctcgccga gctcagtatg gcctgttagt gcacttgtag 60
141 tagcaaccac ccctcctcct gcagatcttg atctgcc 97
143 <210> SEQ ID NO: 11
144 <211> LENGTH: 85
145 <212> TYPE: DNA
146 <213> ORGANISM: Artificial Sequence
148 <220> FEATURE:
149 <223> OTHER INFORMATION: Synthetic oligonucleotide
151 <400> SEQUENCE: 11
152 agggcccccct agggtttaaa cggccagtcg ggccgaattc gagctcggtg cccgggggac 60
153 ctctagagtc gacctgcagg catgc 85
155 <210> SEQ ID NO: 12
156 <211> LENGTH: 66
157 <212> TYPE: DNA
158 <213> ORGANISM: Artificial Sequence
160 <220> FEATURE:
161 <223> OTHER INFORMATION: Synthetic oligonucleotide
163 <400> SEQUENCE: 12
164 ccctgaacca ggctcgaggg cgcgccctta ttaaaagctt gcatgcctgc aggtcgactc 60
165 tagagg 66
167 <210> SEQ ID NO: 13
168 <211> LENGTH: 93
169 <212> TYPE: DNA
170 <213> ORGANISM: Artificial Sequence
172 <220> FEATURE:
173 <223> OTHER INFORMATION: Synthetic oligonucleotide
175 <400> SEQUENCE: 13
176 ccggccagtc aggccacact taattaagtt taaacgcggc cccggcgcg ctaggtgtgt 60
177 gctcgagggc ccaacctcag tacctggttc agg 93
179 <210> SEQ ID NO: 14
180 <211> LENGTH: 93
181 <212> TYPE: DNA
182 <213> ORGANISM: Artificial Sequence
184 <220> FEATURE:
185 <223> OTHER INFORMATION: Synthetic oligonucleotide
187 <400> SEQUENCE: 14
188 ccggcctgaa ccaggtactg aggttggggc ctcgagcaca cacctaggcg cgccggggcc 60
189 gcgtttaaac ttaattaagt gtggcctgac tgg 93
191 <210> SEQ ID NO: 15

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Input Set : A:\#396215 v1 - A33002-PCT-USA Sequence Listing.txt

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192 <211> LENGTH: 19
193 <212> TYPE: PRT
194 <213> ORGANISM: Androctonus australis
196 <220> FEATURE:
197 <221> NAME/KEY: VARIANT
198 <222> LOCATION: 1
199 <223> OTHER INFORMATION: Xaa = any amino acid
201 <221> NAME/KEY: VARIANT
202 <222> LOCATION: 3
203 <223> OTHER INFORMATION: Xaa = any amino acid
W--> 205 <221> VARIANT
206 <222> LOCATION: 4
207 <223> OTHER INFORMATION: Xaa = any amino acid
W--> 209 <221> VARIANT
210 <222> LOCATION: 5
211 <223> OTHER INFORMATION: Xaa = any amino acid
W--> 213 <221> VARIANT
214 <222> LOCATION: 6
215 <223> OTHER INFORMATION: Xaa = any amino acid
W--> 217 <221> VARIANT
218 <222> LOCATION: 7
219 <223> OTHER INFORMATION: Xaa = any amino acid
W--> 221 <221> VARIANT
222 <222> LOCATION: 9
223 <223> OTHER INFORMATION: Xaa = any amino acid
W--> 225 <221> VARIANT
226 <222> LOCATION: 10
227 <223> OTHER INFORMATION: Xaa = any amino acid
W--> 229 <221> VARIANT
230 <222> LOCATION: 11
231 <223> OTHER INFORMATION: Xaa = any amino acid
W--> 233 <221> VARIANT
234 <222> LOCATION: 12
235 <223> OTHER INFORMATION: Xaa = any amino acid
W--> 237 <221> VARIANT
238 <222> LOCATION: 13
239 <223> OTHER INFORMATION: Xaa = any amino acid
W--> 241 <221> VARIANT
242 <222> LOCATION: 15
243 <223> OTHER INFORMATION: Xaa = any amino acid
W--> 245 <221> VARIANT
246 <222> LOCATION: 16
247 <223> OTHER INFORMATION: Xaa = any amino acid
W--> 250 <221> VARIANT
251 <222> LOCATION: 17
252 <223> OTHER INFORMATION: Xaa = any amino acid
W--> 254 <221> VARIANT
255 <222> LOCATION: 19
256 <223> OTHER INFORMATION: Xaa = any amino acid

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Input Set : A:\#396215 v1 - A33002-PCT-USA Sequence Listing.txt

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W--> 258 <400> 15

W--> 259 Xaa Cys Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Cys Xaa
260 1 5 10 15

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/486,094B

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Input Set : A:\#396215 v1 - A33002-PCT-USA Sequence Listing.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:15; Xaa Pos. 1,3,4,5,6,7,9,10,11,12,13,15,16,17,19

VERIFICATION SUMMARY

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Input Set : A:\#396215 v1 - A33002-PCT-USA Sequence Listing.txt

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L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:205 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:15
L:209 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:15
L:213 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:15
L:217 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:15
L:221 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:15
L:225 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:15
L:229 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:15
L:233 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:15
L:237 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:15
L:241 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:15
L:245 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:15
L:250 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:15
L:254 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:15
L:258 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:15
L:259 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0